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STATE NORMAL SCHOOL,

WESTFIELD, MASS.

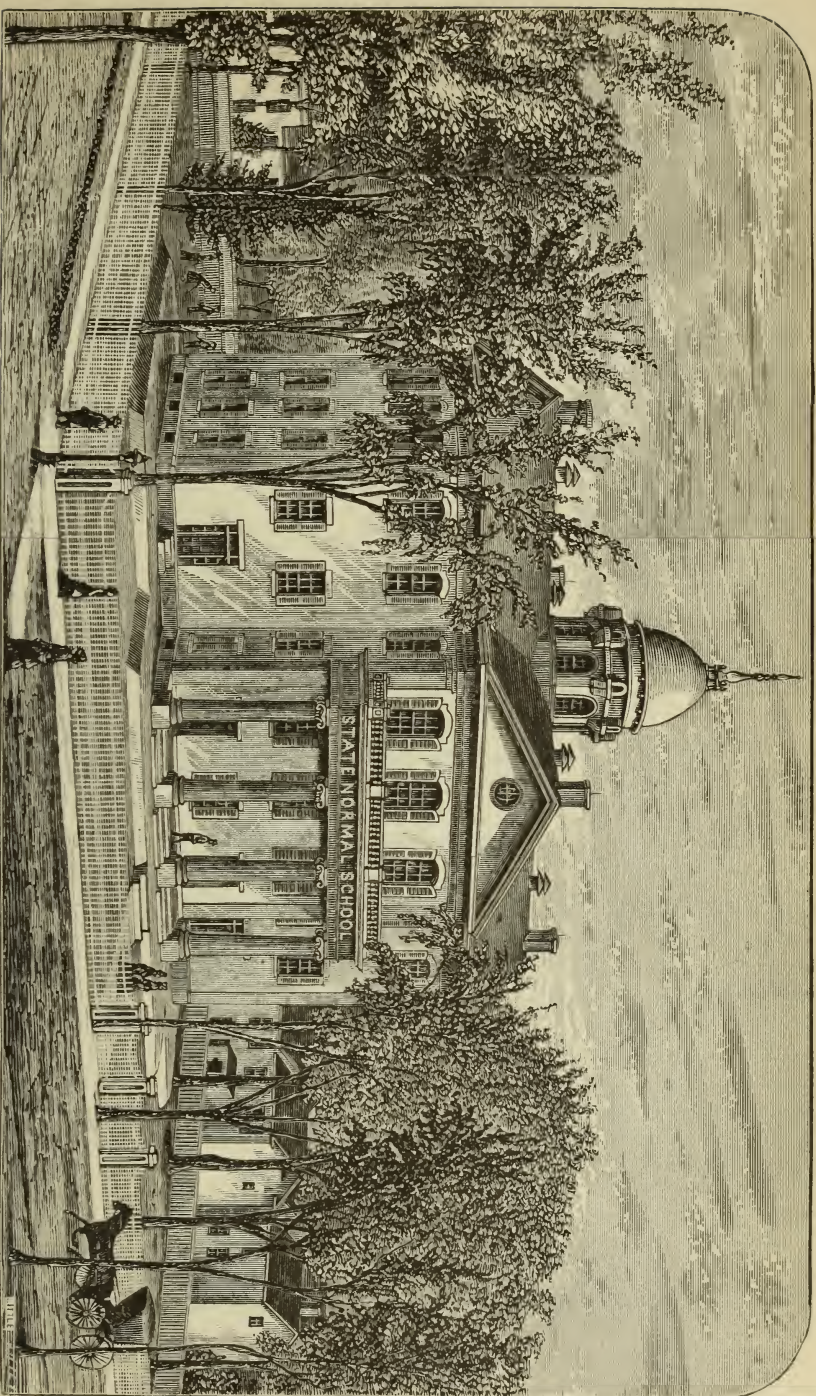
CATALOGUE AND CIRCULAR.

FORTY-SEVENTH YEAR, 1885-86.





NORMAL HALL, WESTFIELD, MASS.



STATE NORMAL SCHOOL, WESTFIELD, MASS.

STATE NORMAL SCHOOL,

WESTFIELD, MASS.

CATALOGUE AND CIRCULAR.

FORTY-SEVENTH YEAR, 1885-86.

BOSTON :

Wright & Potter Printing Company, State Printers,

18 POST OFFICE SQUARE.

1886.

STATE BOARD OF EDUCATION.

ESTABLISHED IN 1837.

HIS EXCELLENCY GEORGE D. ROBINSON.

HIS HONOR OLIVER AMES.

TERM EXPIRES.

ADMIRAL P. STONE, LL.D., . . .	<i>Springfield,</i> . . .	May 25, 1887.
MISS ABBY W. MAY,	<i>Boston,</i>	May 25, 1888.
HON. M. B. WHITNEY,	<i>Westfield,</i>	May 25, 1889.
GEN. F. A. WALKER, LL.D.,	<i>Boston,</i>	May 25, 1890.
E. C. CARRIGAN, Esq.,	<i>Boston,</i>	May 25, 1891.
HON. E. B. STODDARD,	<i>Worcester,</i>	May 25, 1892.
REV. ALONZO A. MINER, D.D.,	<i>Boston,</i>	May 25, 1893.
HORACE E. SCUDDER, A.M.,	<i>Cambridge,</i>	May 25, 1894.

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ANNIE R. SLAFTER.

DRAWING, PENMANSHIP.

Mrs. ANNIE E. STAEBNER.

SUBSTITUTE FOR MISS KNEIL FOR TWO MONTHS.

* Absent two months on account of sickness.

STUDENTS.

ADVANCED COURSE.

LADIES.

NAMES.	RESIDENCES.
Brakenridge, Annie M.,	No. Grosvenor Dale, Conn.
Carmichael, Mary,	Springfield
Hayes, Belle M.,	Granby, Conn.
Horrigan, Mary A.,	Westfield
Johnson, Hattie F.,	Ware
Pettis, Lottie E.,	Westfield

GENTLEMEN.

McAllister, Thomas K.,	Whitinsville
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GRADUATES.

WINTER TERM.

LADIES.

Allen, Etta A.,	W. Springfield
Dean, Sara E.,	Muncy, Pa.
Ely, Emma N.,	Chicopee
Farrell, Anna E.,	Westfield
Hastings, Grace L.,	Southwick
Henry, Julia S.,	Waterbury, Vt.
Langdon, Jennie E.,	Monterey
Martin, Mary A.,	Willimantic, Conn.
McSheehy, Esther C.,	Whitinsville
Norton, Sara E.,	Westfield
Nugent, Mary E.,	Holyoke
Ramage, Chrissie G.,	Holyoke
Ramage, Lucy B.,	Holyoke
Redwood, Maude A.,*	So. Lawrence
Roberts, Cora L.,	Riverton, Conn.
Scägel, Flora,	Waterbury, Vt.
Wentworth, Ella M.,	Hinsdale

* From advanced course.

SUMMER TERM.

LADIES.

NAMES.	RESIDENCES.
Bardin, Angie E.,*	Dalton
Benoit, Selena F.,	Springfield
Clark, Mary D.,	Blandford
Cock, Lila,	Hampton, Va.
Day, Jennie M.,	Westfield
Dean, Mary E.,	Westfield
Demond, Cora J.,	W. Springfield
Greene, Mary E.,	Westfield
Griffin, Margaret C.,	Holyoke
Hannifen, Bridget E.,	Springfield
Herrick, Effie M.,	Westfield
Howland, Eliza A.,	Conway
Ingram, Fannie F.,	Montague
Jeffers, Fannie H.,	Westfield
Merrick, Lizzie J.,	W. Springfield
Merritt, Annie C.,	Haydenville
Noble, Mary,	E. Saginaw, Mich.
O'Donnell, Mary T.,	Holyoke
Osborne, Helen C.,	Alford
Read, Lizzie E.,	Orange
Reardon, Annie M.,	Holyoke
Stoddard, Jessie D.,	Westfield
Sullivan, Mary E.,	Chicopee
Whittaker, Jennie E.,	Chicopee
Woodward, Dore F.,	Sharon, Conn.

GENTLEMEN.

Murphy, William L.,*	W. Springfield
Sedgwick, Hubert M.,	Bondsville

* From the advanced course.

SENIOR CLASS.

LADIES.

Andrews, Bertha A.,	Conway
Boyce, Gertrude,	Orange
Campbell, Mary,	Westfield
Cooley, Alice E.,	Springfield
Dimock, Clara G.,	Westfield
Donahue, Mary A.,	Holyoke
Elmore, Emma R.,	Rocky Hill, Conn.

NAMES.	RESIDENCES.
Graves, Clara M.,	Southampton
Hancock, Sarah E.,	Holyoke
Marden, Annie D.,	Holyoke
McKee, Annie R.,	W. Springfield
Porter, Mary S.,	Lenox
Simonds, Anna B.,	No. Adams
Spencer, Lucy,	New Lebanon, N. Y.
Tiffany, Nellie,	Bennington, Vt.
Waterman, Martha L.,	Westfield

MIDDLE CLASS.

LADIES.

Ayers, Mary E.,	Brattleboro', Vt.
Bailey, Ella M.,	Westfield
Blakesley, Carrie E.,	Westfield
Carey, Mary L.,	New Braintree
Clapp, Susie M.,	Westhampton
Converse, Flora H.,	Wales
Cooper, Jessie M.,	Stockbridge
Curran, Nellie M.,	Holyoke
Donoghue, Mary A.,	Holyoke
Ferry, Etta I.,	Brimfield
Fitzpatrick, Mary C.,	Springfield
Hall, Lou C.,	Ashfield
Johnson, Jennie D.,	Granville
Jordan, Eva J.,	Florence
Mecum, Minnie A.,	Feeding Hills
O'Connell, Nellie,	Holyoke
Palmer, Agnes L.,	Southfield
Sackett, Clara B.,	Westfield
Scolley, Emmie G.,	Holyoke
Smith, Rosie L.,	Buckland
Stacy, Alzada L.,	Springfield
Street, Annie M.,	Ellington, Conn.
Thayer, Effie J. W.,	Williamsburg
Tierney, Catherine A.,	Westfield
Tucker, E. Burnett,	Boylston Center
Vilas, Fanny M.,	Alstead, Vt.
Walker, Mary A.,	Holyoke
Whipple, Flora M.,	Maple Grove

GENTLEMEN.

Butts, William H.,	New Bedford
Love, William J.,	Whitinsville

JUNIOR CLASS.

LADIES.

NAMES.	RESIDENCES.
Angell, Mary A.,	Huntington
Ballou, Satie E.,	Holyoke
Beede, Ida M.,	Westfield
Bosworth, Inez E.	Southampton
Boyenton, Clara E.,	Hampton, Va.
Bridgman, Myra B.,	Florence
Brigham, Katie E.,	Russell
Burke, Mary E.,	Montague City
Chase, Lillie,	Florence
Clark, Grace E.,	Westfield
Clark, Mary H.,	Granby, Conn.
Clifford, Delia I.,	Granville
Cowles, Adelaide L.,	Westfield
Dalton, Emma L.,	Montgomery
Downey, Mamie,	Holyoke
Forsythe, Jennie,	Holyoke
Fuller, Florence,	Westfield
Hamilton, Maggie J.,	Holyoke
Harger, Alice M.,	W. Granville
Hildreth, Minnie E.,	W. Springfield
Holcomb, Bertha L.,	Granby, Conn.
Howard, Bridget,	Springfield
Hull, Lilian O.,	Westfield
Jenkins, Annie E.,	So. Hadley
Little, Lucy A.,	Westfield
Lyons, Nellie,	Holyoke
Makepeace, Alice S.,	Ludlow
Manee, Josie M.,	Westfield
McClellan, Mary,	Whately
Palmer, Annie M.,	Otis
Parsons, Jennie C.,	Agawam
Pease, Alice M.,	Becket
Robinson, Katherine T.,	Blandford
Rusby, Lizzie A.,	Franklin, N. J.
Sanford, A. Lulu,	Westfield
Shea, Kate A.,	Willimansett
Shumway, Ella F.,	Williamsburg
Smith, Clara M.,	Westfield
Smith, Grace A.,	Westfield
Sprague, Effie G.,	Westfield
Sprague, Kate A.,	Westfield
Stanton, Mary J.,	Northbridge
Thompson, Helen J.,	Westfield
West, Marie E.,	Belchertown

NAMES.	RESIDENCES.
Whitwell, Josephine M.,	Gt. Barrington
Williams, Edith S.,	Westfield
Williams, Mary A.,	Alford

GENTLEMEN.

Hanchett, Frederick N.,	Westfield
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SPECIAL PUPILS.

LADIES.

Allen, Harriet B.,	Florence
Baber, Fannie,*	Westfield
Burghardt, Cora,	Great Barrington
Campbell, Alma T.,	Westfield
Chapin, Lizzie A.,*	Holyoke
Grant, Mary,*	Westfield
Mackintosh, Francesca L.,	Peabody
Morton, Eunice J.,	Hatfield
Plumb, Julia W.,*	Westfield

GENTLEMEN.

Bardin, James E.,	Dalton
Lamson, Howard D.,	Mount Washington

PUPILS

WHO HAVE TAKEN SOME OF THE STUDIES OF THE ADVANCED COURSE.

LADIES.

Blakeslee, Carrie E.,	Westfield
Boyce, Gertrude,	Orange
Clark, Mary D.,	Blandford
Day, Jennie M.,	Westfield
Dean, Sara E.,	Muncy, Pa.
Dimock, Clara G.,	Westfield
Donoghue, Mary A.,	Holyoke
Elmore, Emma R.,	Rock Hill, Conn.
Ely, Emma N.,	Chicopee
Ferry, Etta I.,	Brimfield
Fuller, Florence,	Westfield
Griffin, Margaret C.,	Holyoke

* Post-graduates.

NAMES.	RESIDENCES.
Henry, Julia S.,	Waterbury, Vt.
Hildreth, Minnie E.,	West Springfield
Holcomb, Bertha L.,	Granby, Conn.
Howland, Eliza A.,	Conway
Jeffers, Fannie H.,	Westfield
Jordan, Eva J.,	Florence
Little, Lucy A.,	Westfield
McSheehy, Esther C.,	Whitinsville
Mecum, Minnie A.,	Feeding Hills
Merritt, Annie C.,	Haydenville
Nugent, Mary E.,	Holyoke
O'Donnell, Mary T.,	Holyoke
Osborne, Helen C.,	Alford
Palmer, Annie M.,	Otis
Read, Lizzie E.,	Orange
Scägel, Flora	Waterbury, Vt.
Stoddard, Jessie D.,	Westfield
Thompson, Helen J.,	Westfield
Waterman, Martha L.,	Westfield
Woodward, Dore F.,	Sharon, Conn.

GENTLEMEN.

Sedgwick, Hubert M.,	Bondsville
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SUMMARY.

Advanced,	7
Graduates,	44
Senior Class,	16
Middle Class,	30
Junior Class,	48
Pursuing some Studies of Advanced Course,	33
Special Pupils,	11
Names repeated,	33
Total,	156

WESTFIELD NORMAL SCHOOL.

This institution was established by the Commonwealth of Massachusetts in September, 1839. With a single exception, it is the oldest normal school in America. Up to the present time, three thousand three hundred and seventeen have been admitted to the school. Since 1855, the date of the first formal graduations, one thousand one hundred and twenty-three have received diplomas upon the completion of the prescribed course of study.

CONDITIONS OF MEMBERSHIP.

Applicants for admission to the school must be at least sixteen years of age (if males, seventeen); must present a certificate of good moral character; must pledge themselves to complete the course, if possible, and afterwards to teach in the public schools of Massachusetts;* and must pass a satisfactory examination in reading, spelling, writing, arithmetic, geography, English grammar and the history of the United States. To illustrate the scope of the examinations, the questions used at the beginning of the year are given at the end of this circular. Higher attainments and a more mature age than those prescribed render the training of the school much more profitable.

AIMS AND METHODS OF STUDY AND TRAINING.

The ends to be secured by a course of study and practice in the normal schools are a knowledge of the principles and methods of teaching, skill in the art of teaching, and the general development of the mental powers.

All the studies are conducted upon the topical plan, and with special reference to the best ways of teaching them. From the first the pupils frequently occupy the place of teacher of their classmates, and are subjected to their criticisms, as well as to those of their regular teachers.

THE DESIGN OF THE SCHOOL AND COURSES OF STUDY.

The Board of Education, by a vote passed May 6, 1880, stated the design and the course of studies for the State normal schools as follows:—

“The *design* of the normal school is strictly professional; that is, to prepare in the best possible manner the pupils for the work of organizing, governing and teaching the public schools of the Commonwealth.

* Persons intending to teach in other States, or in private schools, are admitted on payment of fifteen dollars a term for tuition.

“To this end, there must be the most thorough knowledge, *first*, of the branches of learning required to be taught in the schools; *second*, of the best methods of teaching those branches; and, *third*, of right mental training.

“The time of one course extends through a period of two years, of the other through a period of four years, and is divided into terms of twenty weeks each, with daily sessions of not less than five hours, five days each week.”

STUDIES.

TWO-YEARS' COURSE.

Arithmetic, algebra, geometry, book-keeping.

Physics, astronomy, chemistry, physiology, botany, zoölogy, mineralogy, geology, geography.

Language, reading, orthography, etymology, grammar, rhetoric, literature, composition.

Penmanship, drawing, vocal music, gymnastics.

Psychology, science and art of education, school organization and history of education.

Civil polity of Massachusetts and of the United States, history, school laws of Massachusetts.

FOUR-YEARS' COURSE.

In addition to the studies named above, the four-years' course includes advanced algebra and geometry, trigonometry and surveying.

Advanced chemistry, physics and botany.

Drawing, English literature, general history.

Latin and French required; German and Greek as the Principal and Visitors of the school shall decide.

The above is an enumeration of the studies. The order of the studies in the course is determined by the Principal of each school, with the approval of the Visitors of that school.

The present order and scope of studies in the two-years' course in the Westfield School may be gathered from the following brief outline:—

FIRST TERM.

Arithmetic. — Notation, addition, subtraction, multiplication, and division of integral numbers, common fractional numbers, decimals, and compound denominate numbers, elementary course, practical work.

Geometry. — First four books of Loomis's Geometry, or their equivalent.

Physiology. — General outline of subject; anatomy, physiology and hygiene of digestive organs, including classification of food-stuffs, and methods of preparing food; anatomy, physiology, and hygiene of circulatory and respiratory organs; animal heat—its nature, source, distribution, regulation, etc.; clothing,—use, qualities desirable in, qualities of common materials, how to dress hygienically, etc. Anatomy is taught from anatomical preparations of organs of the human body; and physiology, as far as possible, by observing organs of other animals in action.

Physics. — Physical properties of matter; definition and enumeration of forces; effects of gravitation, including pressures of liquids and gases, with consequences

and applications; electricity, special attention being given to elementary phenomena and to practical applications; machines or means of applying force. In this subject everything is taught experimentally, pupils being required, as far as possible, to perform all important experiments for themselves.

Vocal Music. — Rhythmics, melodics, dynamics, sight-singing, elementary course.

Composition. — Capitals, punctuation, letter-writing, business-forms, language-lessons.

Drawing. — Freehand drawing on blackboard, from dictation, of combinations, of straight lines and curved; drawing on paper from dictation; drawing from memory; elementary designs.

SECOND TERM.

Arithmetic. — Metric system taught by apparatus; percentage, and its application in commission, taxes, interest, banking, etc.; extraction of roots, with applications; mensuration; examples and problems in all subjects taught, to apply knowledge. Pupils are encouraged to seek information at the post-office, at lawyers' offices, banks, stores, and the teachers' desks, and thus to become familiar with the practical applications of arithmetic in the affairs of everyday life.

Grammar. — Outline of subject; parts of expressions taught and named; words studied with reference to classification, properties, and construction; parsing and analysis of sentences.

Geography. — Scientific study of the form, size, and motions of the earth; configuration and relief of the land-masses; atmospheric and oceanic movements; climate; plant and animal life, and especially man, including distribution of races, and all conditions affecting this distribution; religion, government, and whatever affects the civilization of the races.

Algebra. — Usual topics preceding quadratics.

Drawing. — Work of first term continued, drawing from the flat, geometrical drawing, perspective, model drawing, design. Drawing is *required* for only one year; but many continue the study for an additional term or two. For those who do this, the subjects are: model and cast drawing; shading of objects, models, and casts, in charcoal and stump; applied design; and freehand drawing from enlarged flats.

Composition. — Paragraphing, compositions on subjects assigned, criticism in class and by class, spelling.

THIRD TERM.

Geography (six weeks). — Philosophic study of topics taken up in second term.

Rhetoric. — Study of figurative language and qualities of style, with practical applications, followed by several weeks of composition writing and criticism; study of the mind and its qualities, such as wit, humor, etc., the sensibilities, especially taste (under this, literary taste, sources of pleasure, and how to cultivate such a taste).

English Literature. — History of language; life, style, and study of selections from the following authors, with some variations from term to term: Wickliffe,

Chaucer, Cranmer, Spenser, Bacon, Shakspeare, Milton, Johnson, Whittier, Hawthorne, Lowell, Longfellow; reading (in addition) of "Idyls of the King," "Ivanhoe," "Henry VIII.," "Merchant of Venice," "Julius Cæsar," one book of "Paradise Lost," Macaulay's "Essays on Johnson," "Snowbound," "Among the Hills," "Vision of Sir Launfal," "Commemoration Ode," "The Old Manse," "Evangeline," "Courtship of Miles Standish."

United States History. — Periods of discoveries; explorations; settlements and colonies, with the included wars; Revolution, Constitution; Civil War, and events following; collateral reading.

FOURTH TERM.

Astronomy. — Methods of describing position of heavenly bodies; refraction, parallax, and precession; classification of heavenly bodies; particular study of earth, sun, and moon; tides; eclipses; geography of celestial sphere.

Reading. — Vocal culture, sight-reading, study of pieces, elementary course.

Chemistry. — Chemical physics; inorganic chemistry, with laboratory practice by each pupil.

Theory and Art of Teaching. — Including psychology in its relation to principles and methods of teaching; school organization and government; school laws of Massachusetts; several weeks of purely professional work in common English branches, with practice in teaching in public schools; civil polity.

Botany and geology are taught in the summer term, zoölogy and mineralogy in the winter, all with specimens in hand, and with field work.

FOUR-YEARS' COURSE.

This course is intended to give pupils that broad culture indispensable to the highest success in schools of any grade, but especially to fit them for service as teachers in High Schools. The studies are so arranged, that graduates from the shorter course may complete the four-years' in two additional years, or, if unable to remain so long in the school, they may profitably take one or two terms' work in addition to the two-years' course.

Graduates from this course are in special demand for the best positions.

EXAMINATIONS AND GRADUATIONS.

Entrance Examinations on the First Day of each Term.

Examinations, both oral and written, are made each term in every study; and the result in each must be satisfactory to enable the pupil to advance to the studies next in order. Only those pupils who have satisfactorily passed all the examinations in the prescribed course of study receive the diploma of the institution.

EMPLOYMENT OF GRADUATES, ETC.

The demand for graduates of this school is steadily and rapidly increasing. During the past two years it has been vastly greater than the supply. A noteworthy fact concerning this demand is the large increase in calls for teachers for positions of high grade. Great encouragement is thus given, to the best gradu-

ates of high schools desiring to teach, to take a course of professional training as the shortest, as well as in every respect the best, way to eminence in the profession.

LIBRARIES, APPARATUS, ETC.

Pupils have free access to valuable libraries of works for general reference and reading. Excellent apparatus is provided for the illustration of the more important principles in the natural sciences. Large and growing cabinets of mineral, geological, and zoölogical specimens are constantly used in teaching natural history.

A very convenient chemical laboratory has recently been fitted up for the use of pupils. In this, under competent supervision, students may perform for themselves the most important experiments, and thus acquire skill in manipulation, and a confidence obtainable in no other way.

The Art Room is handsomely fitted up, and provided with the best kind of furniture and instruments, affording excellent facilities for training in the various departments of drawing. A large number of the finest examples of casts, models, and flat copies, add greatly to the beauty of this room, and furnish a constant study of art to the members of the school.

DISCIPLINE.

Pupils are treated with confidence from the first, and, as far as may be, the government of the school is left in their hands. But nothing less than regular attendance, good behavior, and hearty allegiance to all the interests of the school, is accepted as a condition of membership. The work of the school cannot be acceptably done by those who do not make it their only occupation during their connection with the school.

Parents are earnestly advised not to encourage *any* absence from the school, except in vacations.

EXPENSES, AID, ETC.

Tuition is free to those complying with the condition of teaching in the public schools of Massachusetts, wherever they may have resided previously. A small fee (\$2) is paid by each pupil at the beginning of each term for incidental expenses.

Text-books required are furnished from the School Library without charge.

For cost of board, see under "Normal Hall."

To aid those students in the school who find it difficult to meet the expenses of the course, pecuniary aid is furnished by the State in sums varying according to the distance of their homes from Westfield, though never exceeding \$1.50 per week. But this aid is not furnished for the first term of attendance; and those who fail (through their own fault) to complete the course, or to teach in the public schools of Massachusetts, are required to refund whatever they may have received.

NORMAL HALL.

The State has erected and furnished for the school a very pleasant and commodious boarding-hall, which is accurately represented in the accompanying cut. The hall is under the charge of the principal. Most of the teachers board

with the students, and no pains will be spared to make the hall a *home* for the pupils.

Pupils from abroad are required to board in this hall, except as they may board with *relatives* or work for their board in private families.

A very pleasant reading-room is provided for the daily use of the students. This room is provided with several daily papers, the leading magazines, and a variety of other publications, scientific, educational, religious, and general. During the past year, generous contributions of money and books, by teachers and pupils, have enabled us to provide a small library of choice works for general reading and for reference.

The price of board is \$75 per term of twenty weeks, \$80 for gentlemen. \$40 must be paid in advance by each student at the beginning of the term, and \$35 at the middle of the term. The object of this payment in advance is to secure the purchase of supplies at wholesale cash prices, thereby saving to each boarder much more than the interest of the money advanced. *The price of board includes the expense of light, heat and washing.*

The rates given above are for those who have room-mates, and whose attendance is not less than ten weeks. Those who desire to room alone can generally be accommodated at an additional charge of 50 cents per week. Those who for any reason are members of the school for less than half of any term, are charged \$4 per week. Visitors can have good accommodations at \$1 per day or \$5 per week; dinner, 40c.; supper or breakfast, 25c.; lodging, 50c. Former members of the school will be allowed a discount of 10 per cent. from prices charged other visitors.

Each boarder is required to bring bedding, towels, napkins, a napkin-ring, and two clothes-bags. Each pupil will want ordinarily four pillow-cases, three sheets, and two blankets, or their equivalent. Ladies should provide themselves with slippers for in-door wear. *All articles sent to the laundry should be distinctly marked with the owner's name.* INITIALS WILL NOT ANSWER.

GENERAL REMARKS.

The Normal School is always open to the public. Parents and guardians of its pupils are especially invited to visit the school often, and learn by personal inspection what it attempts to do for its members.

A cordial invitation is extended to teachers and school committees to visit the school at their convenience. They will be welcome for a day, a week, or a month.

For catalogues, or for further information, apply to the Principal at Westfield.

WESTFIELD, MASS., June, 1886.

CALENDAR FOR 1886-1887.

FALL TERM BEGINS TUESDAY, AUG. 31, 1886.

RECESS, THANKSGIVING WEEK.


FALL TERM CLOSES TUESDAY, JAN. 18, 1887.

VACATION, TWO WEEKS.

SPRING TERM BEGINS TUESDAY, FEB. 1, 1887.

RECESS, APRIL 9-18.

SPRING TERM CLOSES TUESDAY, JUNE 21, 1887.

 *No school Mondays. Saturday sessions from 8.30 to 1. Sessions other days both morning and afternoon.*

QUESTIONS

USED AT ENTRANCE EXAMINATION, SEPT. 1, 1885.

[QUESTIONS FURNISHED BY STATE BOARD OF EDUCATION.]

ARITHMETIC.

1. Express by figures ten thousands, ten units, and ten thousandths.
2. Multiply 10,100.01 by 10 hundred, subtract from the product 10 ten-thousandths, divide the remainder by 10 thousandths.
3. What is the value of a pile of wood 64 feet long, 4 feet wide, and $3\frac{1}{2}$ feet high, at \$4.62 $\frac{1}{2}$ per cord.
4. How many posts will be required to fence a rectangular lot of land 15 rods long, and 9 rods wide, setting the posts 9 feet from centre to centre?
5. What is the value of a plank 12 feet long, 15 inches wide, and 2 inches thick, at \$40 per thousand?
6. Write a receipted bill for 8 quires of paper at 20 cents a quire, 5 packages of envelopes at 15 cents a package, and 2 dozen pens at 10 cents a dozen.
7. To the difference of $\frac{2}{3}$ and $\frac{2}{7}$ add their sum.
8. What per cent. of $\frac{1}{2}$ is $\frac{1}{3}$?
9. What is the quotient of $\frac{2}{3}$ of $\frac{4}{7}$ divided by .3?
10. Apples are bought 3 for 2 cents, and sold 2 for 3 cents. What per cent. is gained?
11. What is the interest of \$3,000 for 2 days at 8%?
12. Goods are sold 20% off at 30 days, and 5% off from this for cash. What is the whole discount for cash?
13. For what sum must a note for 3 months' interest at 6% a year be given at the bank that the proceeds may be \$500?

14. What is the difference, in square feet, between a square containing 10 square feet and one 10 feet square?
15. If 7 be 9, what must 4 be?
16. Nine men do a work in 16 days. In how many days will 12 men do it?
17. How many cubic inches in a gallon?
18. Write one principle of Arabic notation.

GEOGRAPHY.

1. What is the area of Massachusetts? The population?
2. What counties of this State are on the Atlantic coast?
3. Locate the principal manufacturing cities of New England.
4. What are the principal branches of industry in New England?
5. State which of the following natural objects you have seen: Mountain, range of mountains, river, lake, ocean, bay, island, peninsula, cape.
6. Which wind brings rain?
7. Upon what three things does the temperature of a place depend?
8. When are the days and nights equal in length, and why?
9. What are the limits of the frigid, temperate, and torrid zones?
10. Name the great natural divisions of land in the order of their size.
11. Bound the United States.
12. Name the three railroad lines to the Pacific coast of the United States.
13. Why is New York the largest city in North America?
14. Name the principal tributaries of the Mississippi as you would pass them in going up the river.
15. Name the principal cities between the fortieth and forty-fifth degrees of north latitude.
16. What are the five most important productions of the United States?
17. Describe the steamship route from Liverpool to Bombay.
18. What is the "Gulf Stream?"

GRAMMAR.

The person who does not know the grammar of his language is not certain that the construction of his sentences is correct.

1. Define language.
2. Define English grammar.
3. Define a sentence.
4. Point and name the three parts of the principal clause in the sentence above.
5. Write separately the subordinate clauses.
6. Analyze the last clause of the sentence.
7. Write every word in the sentence that is used as a subject, with the verb of which it is the subject.
8. Write the principal parts of all the verbs in the sentence.
9. Parse who, his.
10. Parse that, not.
11. Write every word in the sentence which is used as an object with the word of which it is the object.
12. Write the plural of monkey, spoonful, mussulman, mousetrap, stratum.
13. Write the possessive case of lady, ox, deer, Flavius.
14. Supply the correct form of the personal pronoun, first person, singular number in the following sentences :— This is between you and ——. He knew it was ——. He took it to be ——. Please let James and — go.
15. Supply the correct form of the verbs do, lie, lay, successively, in the following sentences ; and the correct auxiliary in the last sentence : He — it. He — down. I — the book on the table. I — rather not go.
16. What verbs have the passive voice and how is it formed ?
- 17-18. Write a short letter to the principal of this school, stating what schools you have attended, how long you have taught school, and for what purpose you attend the Normal School.

HISTORY.

1. How many and what nations took a leading part in exploring North America?
2. What was the leading object of these explorers?
3. How came the name America to be given to this continent?
4. Name the presidents of the United States in the order of their administrations.
5. Give a brief account of Lincoln's administration.
6. What good results have been produced by the Civil War?
- 7-8. Give a brief biographical account of General Grant.
9. State fully how each State is represented in the two Houses of Congress.
10. Describe the State Government of Massachusetts.



